

REMARKS

Entry of this Amendment under 37 C.F.R. § 1.116 is respectfully requested because it clarifies issues, thereby placing the application into allowance or in better form for consideration on Appeal. No new matter is believed to be added to the application by this Amendment

Status of the Claims

Claims 1-4, 6-11, 14-21, 23 and 24 are pending in the application. The amendments to the claims find support at, e.g., page 6 of the specification.

Rejection under 35 U.S.C. § 102(e) over Shinji

Claims 1-4, 6-11, 14-21, 23 and 24 are rejected under 35 U.S.C. § 102(e) as being anticipated by Shinji (USP 6,259,854B1). Applicant traverses this rejection and respectfully requests for reconsideration and withdrawal thereof.

The present invention pertains to an auxiliary light source for a reflective liquid crystal display device that includes a light directing member for directing incident light from a light source towards a reflector. The light directing member includes a lower surface having convex portions extending from lower surface, and each of the convex portions has a substantially planar surface that is substantially parallel to the lower surface. Also, the angle between the lower surface and the surface connecting the

planar surface of the convex portion is about 90°. See instantly amended claims 1, 10 and 11.

Fig. 1(a) of Shinji shows a light guide which can be contrasted to Fig. 4 of the invention. Fig. 4 of Shinji shows a detail of a trapezoidal protuberance. Shinji at column 6, lines 61-62 states "the slope angle of the trapezoid $\delta \geq 5^\circ$." In the nomenclature of the invention, this would correspond to an angle $\geq 95^\circ$.

Shinji fails to disclose or suggest an angle between a lower surface and a surface connecting the planar surface of the convex portion of about 90°.

As a result, Shinji fails to anticipate the instantly claimed invention as is claimed in claims 1, 10 and 11. Claims dependent upon these claims are patentable for at least the above reasons alone. Additionally, the Examiner acknowledges that Shinji is fundamentally different than the invention at page 7, line 14 of the Office Action mailed May 24, 2002.

Accordingly, this rejection is overcome and withdrawal thereof is indicated.

Conclusion

The Examiner is respectfully requested to enter this Reply After Final in that it raises no new issues. Alternatively, the

Examiner is respectfully requested to enter this Reply After Final in that it places the application in better form for Appeal.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Robert E. Goozner (Reg. No. 42,593) at the telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

Attached hereto is a marked-up version of the changes made to the application by this Amendment.

Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), Applicant(s) respectfully petition(s) for a one (1) month extension of time for filing a reply in connection with the present application, and the required fee of \$110.00 is attached hereto.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees


required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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By 

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Attachment: Version with Markings to Show Changes Made

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

The claims have been amended as follows:

1. (Twice Amended) An auxiliary light source device for a reflective liquid crystal display device having a reflector, the auxiliary light source device comprising:

a light source; and

a light directing member for directing incident light from the light source toward the reflector, the light directing member including,

a lower surface having a plurality of convex portions extending from the lower surface, each of the convex portions having a substantially planar surface which is substantially parallel to the lower surface, and an angle between the lower surface and a surface connecting the planar surface of the convex portion is [in a range of 90° to 100°] about 90°.

10. (Twice Amended) A reflective liquid crystal display device, comprising:

a display panel including two substrates spaced apart, liquid crystal sandwiched between the two substrates, and a reflector to reflect light through the liquid crystal; and

an auxiliary light source device for supplying light to the display panel, including,

a light source,

a light directing member for directing incident light from the light source toward the display panel, the directing member having a lower surface having a plurality of convex portions, each having a substantially planar surface which is substantially parallel to the lower surface, an angle between the lower surface and a surface connecting the planar surface of the convex portion being [in a range of 90° to 100°] about 90° , and

a light reflecting member which guides light from the light source into the light directing member.

11. (Twice Amended) An auxiliary light source device for a reflective liquid crystal display device having a reflector, the auxiliary light source device comprising:

an upper reflective surface to reflect impinging light above a certain incidence angle;

a lower reflective surface having a plurality of convex portions extending toward the reflector to direct light from the auxiliary light source device to the reflector; and

an entry surface connecting the upper and lower reflective surfaces through which light from a light source enters, wherein each convex portion includes a planar portion and sides connecting

the planar portion with the lower reflective surface, and an angle between the lower surface and the sides is [in a range of 90° to 100°] about 90° .